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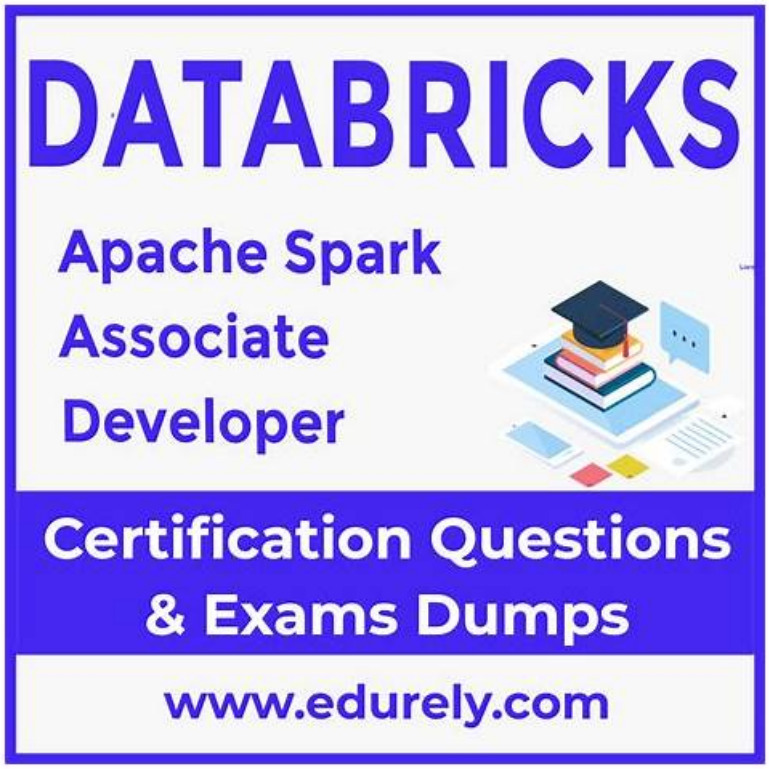

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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q92-Q97):

NEW QUESTION # 92
Given a DataFramedfthat has 10 partitions, after running the code:
result = df.coalesce(20)
How many partitions will the result DataFrame have?

- A. 0
- B. Same number as the cluster executors
- C. 1
- D. 2

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The.coalesce(numPartitions)function is used to reduce the number of partitions in a DataFrame. It does not increase the number of partitions. If the specified number of partitions is greater than the current number, it will not have any effect.
From the official Spark documentation:
"coalesce() results in a narrow dependency, e.g. if you go from 1000 partitions to 100 partitions, there will not be a shuffle, instead each of the 100 new partitions will claim one or more of the current partitions." However, if you try to increase partitions using coalesce (e.g., from 10 to 20), the number of partitions remains unchanged.
Hence,df.coalesce(20)will still return a DataFrame with 10 partitions.
Reference: Apache Spark 3.5 Programming Guide # RDD and DataFrame Operations # coalesce()

NEW QUESTION # 93
An engineer wants to join two DataFrames df1 and df2 on the respective employee_id and emp_id columns:
df1: employee_id INT, name STRING
df2: emp_id INT, department STRING
The engineer uses:
result = df1.join(df2, df1.employee_id == df2.emp_id, how='inner')
What is the behaviour of the code snippet?

- A. The code fails to execute because it must use on='employee_id' to specify the join column explicitly
- B. The code works as expected because the join condition explicitly matches employee_id from df1 with emp_id from df2
- C. The code fails to execute because PySpark does not support joining DataFrames with a different structure
- D. The code fails to execute because the column names employee_id and emp_id do not match automatically

Answer: B

Explanation:
In PySpark, when performing a join between two DataFrames, the columns do not have to share the same name. You can explicitly provide a join condition by comparing specific columns from each DataFrame.
This syntax is correct and fully supported:
df1.join(df2, df1.employee_id == df2.emp_id, how='inner')
This will perform an inner join between df1 and df2 using the employee_id from df1 and emp_id from df2.

NEW QUESTION # 94
33 of 55.
The data engineering team created a pipeline that extracts data from a transaction system.
The transaction system stores timestamps in UTC, and the data engineers must now transform the transaction_datetime field to the "America/New_York" timezone for reporting.
Which code should be used to convert the timestamp to the target timezone?

- A. raw.withColumn("transaction_datetime", date_format(col("transaction_datetime"), "America/New_York"))
- B. raw.withColumn("transaction_datetime", to_utc_timestamp(col("transaction_datetime"), "America/New_York"))
- C. raw.withColumn("transaction_datetime", convert_timezone(col("transaction_datetime"), "America/New_York"))

- D. raw.withColumn("transaction_datetime", from_utc_timestamp(col("transaction_datetime"), "America/New_York"))

Answer: D

Explanation:
In Spark SQL, to convert a UTC timestamp to another timezone, you use the function from_utc_timestamp().
Correct syntax:
from pyspark.sql.functions import from_utc_timestamp, col
df_converted = raw.withColumn(
"transaction_datetime",
from_utc_timestamp(col("transaction_datetime"), "America/New_York")
)
This adjusts the UTC time into the specified timezone using Spark's timezone database.
Why the other options are incorrect:
B: to_utc_timestamp() converts local time to UTC, not the other way around.
C: date_format() formats timestamps as strings but doesn't adjust timezones.
D: convert_timezone() is not a valid Spark SQL function.
Reference:
Spark SQL Functions - from_utc_timestamp() and to_utc_timestamp().
Databricks Exam Guide (June 2025): Section "Using Spark SQL" - working with timestamps and timezone conversions.

NEW QUESTION # 95
A data scientist has identified that some records in the user profile table contain null values in any of the fields, and such records should be removed from the dataset before processing. The schema includes fields like user_id, username, date_of_birth, created_ts, etc.
The schema of the user profile table looks like this:

```
user_id STRING,
username STRING,
full_name STRING,
date_of_birth DATE,
primary_email STRING,
created_ts TIMESTAMP,
updated_ts TIMESTAMP,
last_login_ts TIMESTAMP
```


Which block of Spark code can be used to achieve this requirement?
Options:

- A. filtered_df = users_raw_df.na.drop(how='all')
- B. filtered_df = users_raw_df.na.drop(thresh=0)
- C. filtered_df = users_raw_df.na.drop(how='any')
- D. filtered_df = users_raw_df.na.drop(how='all', thresh=None)

Answer: C

Explanation:
na.drop(how='any')drops any row that has at least one null value.
This is exactly what's needed when the goal is to retain only fully complete records.
Usage:CopyEdit
filtered_df = users_raw_df.na.drop(how='any')
Explanation of incorrect options:
A: thresh=0 is invalid - thresh must be # 1.
B: how='all' drops only rows where all columns are null (too lenient).
D: spark.na.drop doesn't support mixing how and thresh in that way; it's incorrect syntax.
Reference:PySpark DataFrameNaFunctions.drop()

NEW QUESTION # 96
44 of 55.

A data engineer is working on a real-time analytics pipeline using Spark Structured Streaming.
They want the system to process incoming data in micro-batches at a fixed interval of 5 seconds.
Which code snippet fulfills this requirement?

- A. query = df.writeStream \
  .outputMode("append") \
  .trigger(continuous="5 seconds") \
  .start()
- B. query = df.writeStream \
  .outputMode("append") \
  .trigger(processingTime="5 seconds") \
  .start()
- C. query = df.writeStream \
  .outputMode("append") \
  .start()
- D. query = df.writeStream \
  .outputMode("append") \
  .trigger(once=True) \
  .start()

Answer: B

Explanation:
To process data in fixed micro-batch intervals, use the .trigger(processingTime="interval") option in Structured Streaming.
Correct usage:
query = df.writeStream \
.outputMode("append") \
.trigger(processingTime="5 seconds") \
.start()
This instructs Spark to process available data every 5 seconds.
Why the other options are incorrect:
B: continuous triggers are for continuous processing mode (different execution model).
C: once=True runs the stream a single time (batch mode).
D: Default trigger runs as fast as possible, not fixed intervals.
Reference:
PySpark Structured Streaming Guide - Trigger types: processingTime, once, continuous.
Databricks Exam Guide (June 2025): Section "Structured Streaming" - controlling streaming triggers and batch intervals.

NEW QUESTION # 97
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